

NODE 1 MDM STATE TRANSITIONAL MATRIXES

	N1-2 Transition				
Initial N1-1 State	Prim => Off, Diag	Prim => Stdbby	Off/Diag => Prim	Stdbby => Prim	Stdbby => Diag/Off
Primary	1	1	B	B	D
Secondary	A	A	1	1	3
Standby	A	A	1	1	3
Diag/Off	2	3	C(TBD)	1	3

	N1-1 Transition						
Init N1-2 State	Prim => Sec	Prim => Off/Diag	Prim => Stby	Sec => Off/Diag/Stby	Off/Diag => Prim	Off/Diag/Stby => Sec	Stby => Off/Diag
Primary	1	1	1	G	1	I	J
Standby	E	F	F	1	1	1	3
Diag/Off	3	2	3	1	H(TBD)	1	3

ACTIONS

A = Transitioning N1-2 to Dgnstc/Stdbby/Off from Prim & N1-1 to Prim from Stby/Sec
 B = Transitioning N1-2 to Prim from Off/Dgnstc/Stby while N1-1 is Prim
 C = Transitioning N1-2 to Prim from Off/Dgnstc while N1-1 is Off/Dgnstc
 D = Transitioning N1-2 to Dgnstc from Stby while N1-1 is Prim
 E = Transitioning N1-1 to Sec from Prim & N1-2 to Prim from Stby
 F = Transitioning N1-1 to Off/Dgnstc/Stby from Prim & N1-2 to Prim from Stby
 G = Transitioning N1-1 to Off/Dgnstc/Stby from Sec while N1-2 is Prim
 H = Transitioning N1-1 to Prim from Off/Dgnstc while N1-2 is Off/Dgnstc
 I = Transitioning N1-1 to Sec from Off/Dgnstc/Stby while N1-2 is Prim
 J = Transitioning N1-1 to Off/Dgnstc from Stby while N1-2 is Prim

RESULTING STATES

N1-1=Prim N1-2=Off/Dgnstc/Stby
 N1-1=Sec N1-2=Prim
 N1-1=Off/Dgnstc N1-2=Prim
 N1-1=Prim N1-2=Dgnstc
 N1-1=Sec N1-2=Prim
 N1-1=Off/Dgnstc/Stby N1-2=Prim
 N1-1=Off/Dgnstc/Stby N1-2=Prim
 N1-1=Prim N1-2=Off/Dgnstc
 N1-1=Sec N1-2=Prim
 N1-1=Off/Dgnstc N1-2=Prim

Notes:

1 = Illegal States
 2 = Operationally Feasible, but will lose both boxes at 2 A.
 3 = Unstable States. Feasible, but will automatically go back to the original configuration.